

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 March 2005 (17.03.2005)

PCT

(10) International Publication Number
WO 2005/024011 A2

(51) International Patent Classification?: **C12N 9/16**,
C12Q 1/68, C12N 15/00

(21) International Application Number:
PCT/EP2004/052000

(22) International Filing Date:
2 September 2004 (02.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03102699.0 4 September 2003 (04.09.2003) EP
60/501,201 8 September 2003 (08.09.2003) US

(71) Applicant (for all designated States except US): **Applied Research Systems ARS Holding N.V.** [NL/NL]; Pietermaai 15, Curacao (AN).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CHUMAKOV, Ilya** [FR/FR]; 691, rue de la Noue, F-77000 Vaux-le-Penil (FR). **GUERASSIMENKO, Oxana**; 22 rue de la Forêt, F-91490 Milly-La-Forêt (FR).

(74) Agent: **Serono International S.A. Intellectual Property**; 12, Chemin des Aulx, CH-1228 Plan-les-Ouates (CH).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations
- of inventorship (Rule 4.17(iv)) for US only

Published:

- without international search report and to be republished upon receipt of that report
- with sequence listing part of description published separately in electronic form and available upon request from the International Bureau

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **NOVEL UBP8RP POLYPEPTIDES AND THEIR USE IN THE TREATMENT OF PSORIASIS**

(57) Abstract: The invention encompasses a novel gene encoding a protein of the ubiquitin-proteasome pathway, UBP8rp. The invention also relates the use of UBP8rp polypeptides for screening for modulators, and to the use of said modulators for treating chronic inflammatory diseases such as, e.g., psoriasis, psoriatic arthritis, rheumatoid arthritis, asthma, inflammatory bowel disease and multiple sclerosis. The invention further relates to the use of biallelic markers located in the UBP8rp gene for diagnosing said chronic inflammatory diseases.



WO 2005/024011 A2